

Safety Data Sheet

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name: Human Cholinergic Receptor, Muscarinic 1 (CHRM1) Activation Assay Kit

Product Number: IB44001-32, IB44001

Supplier: INDIGO Biosciences, Inc., 3006 Research Drive, Suite A1, State College, PA 16801, USA; +1 (814) 234-1919

Recommended Use: INDIGO's kits are intended for research purposes only, and not for diagnostic or therapeutic use in humans.

SECTION 2: HAZARDS IDENTIFICATION

Mammalian reporter cells: Bio-safety Level 1 (BSL-1). Non-infectious, non-hazardous, mycoplasma-negative, devoid of exogenous self-replicating or transmissible genetic elements of viral vectors; use personal protection devices (Section 8) to avoid direct contact.

Cell culture media (CRM and CSM): CRM and CSM contains, respectively, 5% and 0% fetal bovine serum; use personal protection devices (Section 8) to avoid direct contact.

NFPA rating for Acetylcholine (chloride)

Health hazard: 2

Fire hazard: 0

Reactivity hazard: 0

NFPA rating for Dithiothreitol (DTT)

Health hazard: 3

Fire hazard: 0

Reactivity hazard: 0

Potential Health Effects

Skin: Causes skin irritation.

Eyes: Causes serious eye irritation.

Inhalation: May cause respiratory irritation.

Ingestion: May be harmful if swallowed.

For Acetylcholine (chloride):

Signal word: Warning

Hazard statements:

Skin: Causes skin irritation.

Eyes: Causes serious eye irritation.

Inhalation: Specific Target Organ Toxicity – Single Exposure 3. May cause respiratory irritation.

Precautionary statement: Use personal protection devices (Section 8) to avoid direct contact.

Pictograms: GHS07



Acute toxicity if swallowed.

For mammalian cell culture:

Signal word: Not applicable

Hazard statement: Mammalian reporter cells are non-hazardous; see Toxicological Information (Section 11) for further information.

Precautionary statement: Use personal protection devices (Section 8) to avoid direct contact.

Pictograms: Not applicable

SECTION 3: COMPOSITION / INGREDIENT INFORMATION

Bioactive Kit Components: Acetylcholine (chloride) (CAS No. 60-31-1), 20 mM in DMSO (30 µL). Dithiothreitol (CAS No. 27565-41-9 / 3483-12-3), 105 mM in tricine buffer.

SECTION 4: FIRST AID MEASURES

In case of inhalation: If unconscious, place patient stably on side for transport.

In case of skin contact: Wash off with soap and plenty of water, rinse thoroughly. Consult a physician.

In case of eye contact: Rinse open eye(s) for several minutes under running water. Consult a physician.

If swallowed: Rinse mouth with water. Consult a physician.

SECTION 5: FIRE-FIGHTING MEASURES

Fire hazard: 0; fire-fighting measures not necessary

SECTION 6: ACCIDENTAL RELEASE MEASURES

Do not allow to enter sewers, surface or ground water.

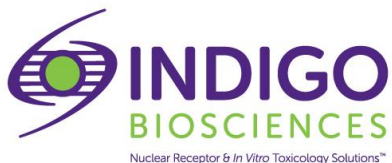
See section 8 on personal protection equipment.

See section 13 for disposal information.

SECTION 7: HANDLING AND STORAGE

Handling: Use personal protection devices (Section 8) to avoid direct contact.

Storage: Reporter cells, detection buffer, and detection substrate must be stored at -80°C; all other assay kit components must be stored at temperatures no warmer than -20°C but may remain at -80°C storage.



SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Appropriate engineering controls: Not applicable; refer to technical manual for equipment specifications.

Personal protective equipment:

Hand protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Eye protection: Safety glasses with side shields conforming to EN166. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN166 (EU).

Skin and body protection: Impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Hygiene measures: Handle in accordance with good industrial hygiene and safety practice. Always wash hands 1.) immediately after using these kit components, and 2.) before leaving the lab environment.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:

Media: reddish hue; cell suspension: cloudy; all other components: clear

State: all components cryo-preserved / solid

For Acetylcholine (chloride):

Upper/lower flammability or explosive limits: Not flammable or explosive.

Odor: Characteristic.

Vapor pressure: Not applicable.

Odor threshold: Not determined.

Vapor density: Not applicable.

pH: Not applicable.

Relative density: Not determined.

Melting point/Melting range: 149-152°C (300.2-305.6°F)

Solubility: 600 g/l in water at 20°C

Boiling point/Boiling range: Undetermined.

Flash point: Not applicable.

Evaporation rate: Not applicable.

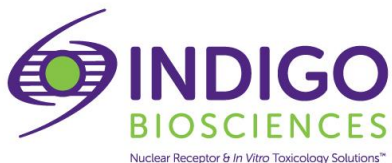
Flammability: Not applicable; fire hazard: 0

Partition coefficient: Not determined.

Auto-ignition temperature: Not applicable; fire hazard: 0

Decomposition temperature: Not determined.

Viscosity: Not applicable.



SECTION 10: STABILITY AND REACTIVITY

Chemical stability: Stable under recommended storage conditions

Possibility of hazardous reactions: No data available

Incompatible materials: Strong oxidizing agents

Hazardous decomposition products: Carbon dioxide, carbon monoxide, hydrogen chloride, nitrogen oxides

SECTION 11: TOXICOLOGICAL INFORMATION

Acetylcholine (chloride):

Skin corrosion/irritation: Irritant to skin and mucous membranes.

Serious eye damage/eye irritation: Irritating effect.

Sensitization: No sensitizing effects known.

Reproductive toxicity: No data available

Carcinogen indication: Substance is not listed.

Mammalian reporter cells:

Skin corrosion/irritation: No data available

Serious eye damage/eye irritation: No data available

Respiratory or skin sensitization: May cause sensitization by skin contact.

Reproductive toxicity: No data available

Carcinogen indication: Not applicable

SECTION 12: ECOLOGICAL INFORMATION

Toxicity: No data available

Persistence and degradability: No data available

Bio-accumulative potential: No data available

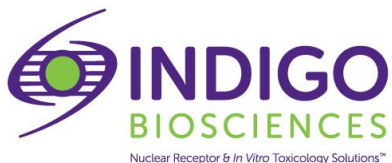
Mobility in soil: No data available

PBT and vPvGB assessment: Not applicable

Other adverse effects: No data available

SECTION 13: DISPOSAL CONSIDERATIONS

Do NOT dispose of liquid or solid waste through municipal drainage or landfill systems. Contact a licensed professional waste disposal service to dispose of bioactive and serum-containing materials provided in this assay kit product.



SECTION 14: TRANSPORT INFORMATION

DOT (US): Not regulated.

IMDG: Not regulated.

IATA: Not regulated.

SECTION 15: REGULATORY INFORMATION

OSHA Hazards: Not listed.

SARA 302 Components: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components: This material does not contain any chemical components with known CAS numbers that exceed the threshold (*de minimis*) reporting levels established by SARA Title III, Section 313.

SECTION 16: OTHER INFORMATION

Date of last revision: 31st December, 2025