

Human 5-HT2AR Protein (S162K, M164W, S372N), Flag,His Tag (Detergent)

Catalog # 5HR-H55D3



Synonym

5-HT2A, HTR2A, HTR2, 5-hydroxytryptamine receptor 2A, 5-HT-2, 5-HT-2A, Serotonin receptor 2A

Source

Human 5-HT2AR Protein (S162K, M164W, S372N), Flag,His Tag(5HR-H55D3) is expressed from Baculovirus-Insect cells. It contains AA Asp 2 - Ala 265 & Gln 313 - Lys 403 (Accession # [P28223-1](#) (S162K, M164W, S372N)). Predicted N-terminus: Asp

Molecular Characterization

This protein carries a flag tag at the N-terminus and a polyhistidine tag at the C-terminus.
The protein has a calculated MW of 55.3 kDa.
Endotoxin
Less than 1.0 EU per µg by the LAL method / rFC method.

Purity

>90% as determined by SDS-PAGE.

Formulation

This product is not suitable for cell based experiments due to cytotoxicity of detergent.
*Detergent buffer is **INDISPENSABLE** to keep membrane protein soluble and active, under no circumstance should you remove detergent.*
Detergent buffer is sold separately and not included in protein, and please contact us if you need the buffer.
*If glycerol is not compatible to your application, remove glycerol just before immediate experiment, and **NEVER** store glycerol-free protein solution.*

Supplied as 0.2 µm filtered solution in 50 mM HEPES, 150 mM NaCl, Buffer B, pH7.5 with glycerol as protectant.
Contact us for customized product form or formulation.

Shipping

This product is supplied and shipped with dry ice, please inquire the shipping cost.

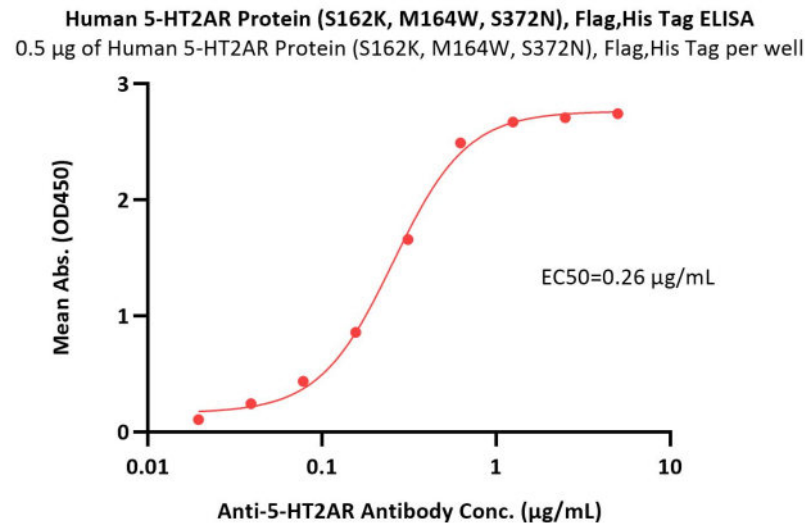
Storage

Please avoid repeated freeze-thaw cycles.
This product is stable after storage at:

- The product **MUST** be stored at -70°C or lower upon receipt;
- -70°C for 3 months under sterile conditions.

*The detergent Buffer B (Cat. No. [LG-13](#)) is sold separately and not included in protein, you can follow [this link](#) for product information.

Bioactivity-ELISA



Immobilized Human 5-HT2AR Protein (S162K, M164W, S372N), Flag,His Tag (Cat. No. 5HR-H55D3) at 5 µg/mL (100 µL/well) can bind Anti-5-HT2AR Antibody with a linear range of 0.02-0.625 µg/mL (QC tested).





Background

This gene encodes one of the receptors for serotonin, a neurotransmitter with many roles. Mutations in this gene are associated with susceptibility to schizophrenia and obsessive-compulsive disorder, and are also associated with response to the antidepressant citalopram in patients with major depressive disorder (MDD). MDD patients who also have a mutation in intron 2 of this gene show a significantly reduced response to citalopram as this antidepressant downregulates expression of this gene. Multiple transcript variants encoding different isoforms have been found for this gene.

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