



## 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  $\mu$ g 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  $\mu$ m 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

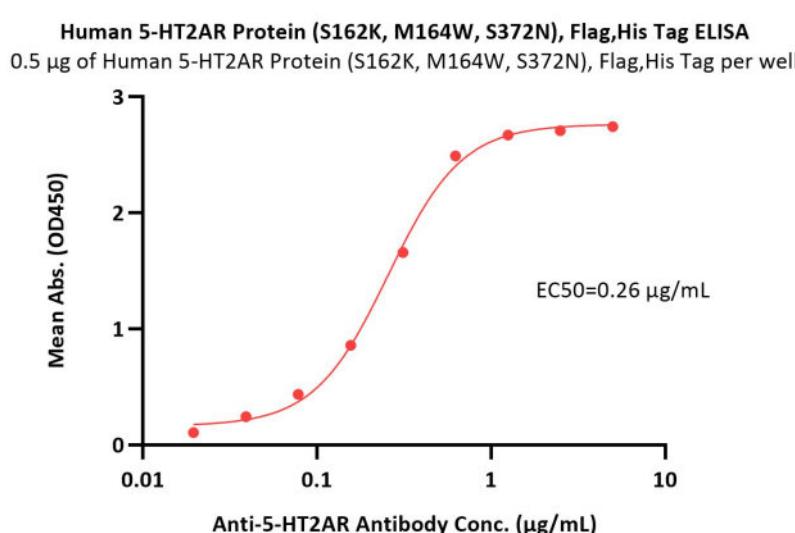
*Please avoid repeated freeze-thaw cycles.*

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  $\mu$ g/mL (100  $\mu$ L/well) can bind Anti-5-HT2AR Antibody with a linear range of 0.02-0.625  $\mu$ g/mL (QC tested).

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**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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