

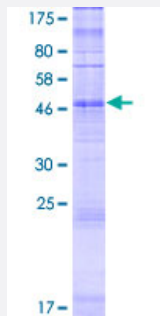
Full-Length

OR2A1 (Human) Recombinant Protein (P01)

Catalog # H00346528-P01

Size 10 ug, 25 ug

Applications



Specification

Product Description

Human OR2A1 full-length ORF (NP_001005287.1, 1 a.a. - 310 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MGENQTMVTEFLLLGFLLGPRIQMLLFGLFSLFYIFTLLGNGAILGLISLDSRLHTPMYFFLSHLAVVD
IAYTRNTVPQMLANLLHPAKPISFAGCMTQTFLCLSFHSECLLLVLMSYDRYAICHPLRYSVIMT
WRVCITLAVTSWTCGSLALAHVVLILRLPFSGPHEINHFFCEILSVRLACADTWLNQVVIFAACV
FFLVGPPSLVLVSYSHILAAILRIQSGEGRRKAFSTCSSHLCVVGLFFGSAIIMYMAPKSRHPREEQQ
KVFFLFYSFFNPTLNPLIYSLRNGEVKGALRRALGKESHS

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

61.1

Interspecies Antigen Sequence

Mouse (78); Rat (76)

Preparation Method

[in vitro wheat germ expression system](#)

Purification

Glutathione Sepharose 4 Fast Flow

Quality Control Testing

12.5% SDS-PAGE Stained with Coomassie Blue.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

Storage Instruction

Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Note

Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — OR2A1

Entrez GeneID[346528](#)**GeneBank Accession#**[NM_001005287.1](#)**Protein Accession#**[NP_001005287.1](#)**Gene Name**

OR2A1

Gene Alias

-

Gene Description

olfactory receptor, family 2, subfamily A, member 1

Gene Ontology[Hyperlink](#)**Gene Summary**

Olfactory receptors interact with odorant molecules in the nose, to initiate a neuronal response that triggers the perception of a smell. The olfactory receptor proteins are members of a large family of G-protein-coupled receptors (GPCR) arising from single coding-exon genes. Olfactory receptors share a 7-transmembrane domain structure with many neurotransmitter and hormone receptors and are responsible for the recognition and G protein-mediated transduction of odorant signals. The olfactory receptor gene family is the largest in the genome. The nomenclature assigned to the olfactory receptor genes and proteins for this organism is independent of other organisms. [provided by RefSeq]

Other Designations

olfactory receptor OR7-16|olfactory receptor OR7-19

Pathway

- [Olfactory transduction](#)