

Active Recombinant Human ANOS1 protein, His-tagged

Cat. No. ANOS1-206H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human ANOS1(Ala25-Tyr680) fused with His tag at C-terminal was expressed in CHO.
Species	Human
Source	CHO
ProteinLength	25-680 a.a.
Description	Anosmin-1, also known as Kal-1, is a 100 kDa secreted glycoprotein that regulates neuronal adhesion and migration. Mutations in Anosmin-1 are associated with the development of X-linked Kallman syndrome which can be accompanied by hearing loss. Mature human Anosmin-1 contains one WAP domain and four Fibronectin type-III domains. It is expressed by cerebellar Purkinje cells and deep nuclear neurons, piriform cortex and olfactory bulb mitral cells, optic tectum and retinal ganglion axons, and oligodendrocyte progenitor cells (OPC). Anosmin-1 binds to Integrin beta 1/CD29, FGF R1, L1CAM, and complexes of FGF R1 with FGF basic and heparan sulfate proteoglycans, and it enhances signaling through FGF R1. It mediates OPC adhesion, inhibits FGF basic-induced OPC migration, and enhances oligodendrocyte-mediated axon myelination. It also cooperates with FGF basic to promote olfactory axon elongation and neurite outgrowth. In addition, Anosmin-1 is up-regulated in glioblastoma and gastric cancer where it enhances tumor cell proliferation and migration.

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Predicted N Terminal	Ala25
Form	Lyophilized from a 0.2 µm filtered solution in PBS and NaCl with Trehalose.
Bio-activity	Measured by its binding ability in a functional ELISA. When Recombinant Human FGF basic 146 aa Recombinant Human FGF basic 146 aa is coated at 1.5 µg/mL, 100 µL/well, Recombinant Human KAL1 binds with an ED50 of 8-48 ng/mL.
Molecular Mass	Predicted Molecular Mass: 75 kDa SDS-PAGE: 84-103 kDa, reducing conditions
Endotoxin	<0.1 EU per 1 µg of the protein by the LAL method.
Purity	>95%, by SDS-PAGE visualized with Silver Staining and quantitative densitometry by Coomassie® Blue Staining.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -70 centigrade under sterile conditions after reconstitution.
Reconstitution	Reconstitute at 200 µg/mL in water.

GENE INFORMATION

Gene Name	ANOS1 anosmin 1 [Homo sapiens]
Official Symbol	ANOS1
Synonyms	HH1; HHA; KAL; KMS; KAL1; ADMLX; WFDC19; KALIG-1; Kallmann syndrome interval gene 1; Kallmann syndrome-1 sequence (anosmin-1); WAP four-disulfide

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core domain 19; adhesion molecule-like X-linked; kallmann syndrome protein

Gene ID 3730**mRNA Refseq** NM_000216**Protein Refseq** NP_000207**MIM** 300836**UniProt ID** P23352 Tel: 1-631-559-9269 1-516-512-3133 Email: info@creative-biomart.com  Fax: 1-631-938-8127 45-1 Ramsey Road, Shirley, NY 11967, USA