

Recombinant Human EDN3, GST-tagged

Cat. No. EDN3-12284H Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant Human EDN3 protein, fused to GST-tag, was expressed in E.coli and purified by GSH-sepharose.

Species Human

Source E.coli

ProteinLength 1-238a.a.

Description The protein encoded by this gene is a member of the endothelin family. Endothelins are endothelium-derived vasoactive peptides involved in a variety of biological functions. The active form of this protein is a 21 amino acid peptide processed from the precursor protein. The active peptide is a ligand for endothelin receptor type B (EDNRB). The interaction of this endothelin with EDNRB is essential for development of neural crest-derived cell lineages, such as melanocytes and enteric neurons. Mutations in this gene and EDNRB have been associated with Hirschsprung disease (HSCR) and Waardenburg syndrome (WS), which are congenital disorders involving neural crest-derived cells. Four alternatively spliced transcript variants encoding three distinct isoforms have been observed.

Storage The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.

Storage Buffer 1M PBS (58mM Na₂HPO₄, 17mM NaH₂PO₄, 68mM NaCl, pH8.) added with 100mM GSH and 1% Triton X-100, 15% glycerol.

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GENE INFORMATION

Gene Name	EDN3 endothelin 3 [Homo sapiens]
Official Symbol	EDN3
Synonyms	EDN3; endothelin 3; endothelin-3; ET3; preproendothelin-3; ET-3; WS4B; HSCR4; PPET3; MGC15067; MGC61498;
Gene ID	1908
mRNA Refseq	NM_000114
Protein Refseq	NP_000105
MIM	131242
UniProt ID	P14138
Chromosome Location	20q13.2-q13.3
Pathway	Class A/1 (Rhodopsin-like receptors), organism-specific biosystem; Endothelins, organism-specific biosystem; G alpha (q) signalling events, organism-specific biosystem; GPCR downstream signaling, organism-specific biosystem; GPCR ligand binding, organism-specific biosystem; Peptide ligand-binding receptors, organism-specific biosystem; Signal Transduction, organism-specific biosystem;
Function	endothelin B receptor binding; hormone activity; receptor binding;

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