

Recombinant Human EPH Receptor A3, His-tagged

Cat. No. EPHA3-1880H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant humanEPHA3 cytoplasmic domain (aa 569-983) with His tag. Activated in vitro viaauto-phosphorylation.
Species	Human
Source	E.coli
ProteinLength	569-983 a.a.
Description	EPHA3 (ephrin type-Areceptor 3) is a protein that inhumans is encoded by the EPHA3 gene. This gene belongs to the ephrin receptorsubfamily of the protein-tyrosine kinase family. EPH and EPH-related receptorshave been implicated in mediating developmental events, particularly in thenervous system. Receptors in the EPH subfamily typically have a single kinasedomain and an extracellular region containing a Cys-rich domain and 2fibronectin type III repeats. The ephrin receptors are divided into 2 groupsbased on the similarity of their extracellular domain sequences and theiraffinities for binding ephrin-A and ephrin-B ligands.
Form	Liquid in 20 mMTris, pH 7.5 + 150 mM NaCl + 0.5 mM EDTA + 0.05% Triton X-100 + 2 mM DTT +50% glycerol.
Molecular Weight	50.8 kDa
Purity	≥ 90% as determinedby SDS-PAGE analysis.

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Specific Activity	1000 nmole ofphosphate transferred to poly [Glu,Tyr] 4:1 substrate per minute per mg oftotal protein at 30°C. Activity determined at a final protein concentrationof 1 µg/ml.
Concentration	0.4 mg/ml
Storage	Stable for 6 monthsin working aliquots at -80°C. Avoid repeated freeze-thaw cycles.
OfficialSymbol	EPHA3

GENE INFORMATION

Gene Name	EPHA3 EPH receptor A3 [Homosapiens]
Synonyms	EPHA3; EPH receptorA3; EK4;ETK; HEK; ETK1; HEK4; TYRO4; ephrin type-A receptor 3; EPH-like kinase 4;OTTHUMP00000213903; OTTHUMP00000213904; OTTHUMP00000213905; human embryokinase 1; eph-like tyrosine kinase 1; TYRO4 protein tyrosine kinase;tyrosine-protein kinase receptor ETK1
Gene ID	2042
mRNA Refseq	NM_005233
Protein Refseq	NP_005224
MIM	179611
UniProt ID	P29320
Chromosome Location	3p11.2

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Pathway	Axon guidance; EPHAforward signaling; EphrinA-EPHA pathway
Function	ATP binding;GPI-linked ephrin receptor activity; nucleotide binding; protein binding;receptor activity
PDB renderingbased on 2gsf.	

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