Human FGF8a Protein

Cat. No. FGF-HE08A

Description

Source	Recombinant Human FGF8a Protein is expressed from E.coli without tag.
	It contains Gln23-Arg204.
Accession	P55075-2
Molecular Weight	The protein has a predicted MW of 21.20 kDa same as Tris-Bis PAGE result.
Endotoxin	Less than 1EU per μg by the LAL method.
Purity	> 95% as determined by Tris-Bis PAGE

Formulation and Storage

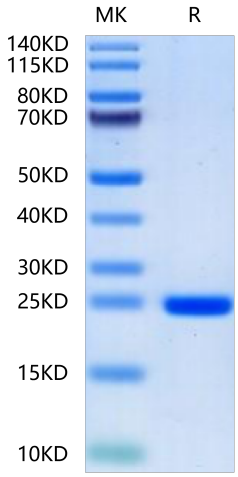
Formulation	Lyophilized from 0.22 μm filtered solution in 20mM Tris-HCl, 300mM NaCl (pH 8.5). Normally 8% mannitol is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 μg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of receipt.-80°C for 3-6 months after reconstitution.2-8°C for 2-7 days after reconstitution.Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background

Two of the four human FGF8 splice isoforms, FGF8a and FGF8b, are expressed in the mid-hindbrain region during development. Although the only difference between these isoforms is the presence of an additional 11 amino acids at the N terminus of FGF8b, these isoforms possess remarkably different abilities to pattern the midbrain and anterior hindbrain.

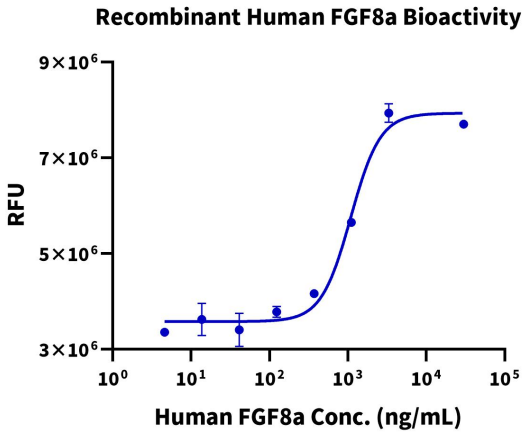
Assay Data

Tris-Bis PAGE



Human FGF8a on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

Cell Based Assay



Measured in a cell proliferation assay using Balb/c 3T3 mouse fibroblasts. The ED50 for this effect is 0.5 - 2 μg/mL.