

Recombinant Human FUT1 Protein, His-tagged

Cat. No. FUT1-4558H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human FUT1 Protein (72-365aa) with a 6*His tag was expressed in E.coli.
Species	Human
Source	E.coli
ProteinLength	72-365 a.a.
Description	This gene encodes a Golgi stack membrane protein that is involved in the creation of a precursor of the H antigen, which is required for the final step in the synthesis of soluble A and B antigens. This is one of two genes encoding the galactoside 2-L-fucosyltransferase enzyme. Mutations in this gene are a cause of the H-Bombay blood group.
Form	Powder
AA Sequence	QHPASLSGTWTVYPNGRFGNQMGQYATLLALAQLNGRRFILPAMHAALAPVFRIT LPVLAPEVDSRTPWRELQLHDWMSEEYADLRDPFLKLSGFPCSWTFFHHLREQIRR EFTLHDHLREEAQSVLGQLRLGRTGDRPRTFVGVHVRRGDYLVMPQRWKGVVG DSAYLRQAMDWFRARHEAPVFVVTSSNGMEWCKENIDTSQGDVTFAGDGQEATPW KDFALLTQCNHTIMTIGTFGFWAAYLAGGDTVYLANFTLPDSEFLKIFKPEAAFLPEW VGINADLSPLWTLAKP
Purity	90%, by SDS-PAGE with Coomassie Brilliant Blue staining.

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Stability	Store for up to 12 months at -20 centigrade to -80 centigrade as lyophilized powder.
Storage	Short-term storage: Store at 2-8 centigrade for (1-2 weeks). Long-term storage: Aliquot and store at -20 centigrade to -80 centigrade for up to 3 months, buffer containing 50% glycerol is recommended for reconstitution. Avoid repeat freeze-thaw cycles.
Storage Buffer	The purified protein was Lyophilized from sterile PBS (58mM Na ₂ HPO ₄ , 17mM NaH ₂ PO ₄ , 68mM NaCl, pH7.). 5 % trehalose and 5 % mannitol are added as protectants before lyophilization.
Reconstitution	Reconstitute at 0.25 g/μl in 200 μl sterile water for short-term storage. Reconstitution with 200 μl 50% glycerol solution is recommended for longer term storage. If a different concentration is needed for your purposes please adjust the reconstitution volume as required (please note: the ion concentration of the final solution will vary according to the volume used). Note: Centrifuge vial before opening. When reconstituting, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution.

GENE INFORMATION

Gene Name	FUT1 fucosyltransferase 1 (H blood group) [Homo sapiens (human)]
Official Symbol	FUT1
Synonyms	FUT1; fucosyltransferase 1 (H blood group); H; HH; HSC; galactoside 2-alpha-L-fucosyltransferase 1; GDP-L-fucose:beta-D-galactoside 2-alpha-L-fucosyltransferase 1; H glycosyltransferase; H glycosyltransferase; alpha(1,2) fucosyltransferase 1; alpha(1,2)FT 1; blood group H alpha 2-fucosyltransferase; galactoside 2-alpha-L-

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fucosyltransferase; nonfunctional fucosyltransferase 1; truncated FUT1; truncated alpha(1,2)fucosyltransferase; truncated fucosyltransferase 1; EC 2.4.1.344

Gene ID 2523

mRNA Refseq NM_000148

Protein Refseq NP_000139

MIM 211100

UniProt ID P19526

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