

Recombinant Human HBD, GST-tagged

Cat. No. HBD-13680H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human HBD protein, fused to GST-tag, was expressed in E.coli and purified by GSH-sepharose.
Species	Human
Source	E.coli
ProteinLength	1-147a.a.
Description	The delta (HBD) and beta (HBB) genes are normally expressed in the adult: two alpha chains plus two beta chains constitute HbA, which in normal adult life comprises about 97% of the total hemoglobin. Two alpha chains plus two delta chains constitute HbA-2, which with HbF comprises the remaining 3% of adult hemoglobin. Five beta-like globin genes are found within a 45 kb cluster on chromosome 11 in the following order: 5-epsilon--Ggamma--Agamma--delta--beta-3. Mutations in the delta-globin gene are associated with beta-thalassemia.
Storage	The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.
Storage Buffer	1M PBS (58mM Na ₂ HPO ₄ , 17mM NaH ₂ PO ₄ , 68mM NaCl, pH8.) added with 100mM GSH and 1% Triton X-100, 15% glycerol.

GENE INFORMATION

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Gene Name	HBD hemoglobin, delta [Homo sapiens]
Official Symbol	HBD
Synonyms	hemoglobin, delta; 4829; Ensembl:ENSG00000223609; hemoglobin subunit delta;delta globin;delta-globin chain;hemoglobin delta chain;
Gene ID	3045
mRNA Refseq	NM_000519.3
Protein Refseq	NP_000510.1
MIM	142000
UniProt ID	A0N071
Chromosome Location	11p15.5
Pathway	Factors involved in megakaryocyte development and platelet production, organism-specific biosystem; Hemostasis, organism-specific biosystem; Metabolism, organism-specific biosystem; O2/CO2 exchange in erythrocytes, organism-specific biosystem; Uptake of Carbon Dioxide and Release of Oxygen by Erythrocytes, organism-specific biosystem; Uptake of Oxygen and Release of Carbon Dioxide by Erythrocytes, organism-specific biosystem;
Function	heme binding; iron ion binding; oxygen binding; oxygen transporter activity;