

Recombinant Human ESD, GST-tagged

Cat. No. ESD-12554H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human ESD protein, fused to GST-tag, was expressed in E.coli and purified by GSH-sepharose.
Species	Human
Source	E.coli
ProteinLength	1-282a.a.
Description	This gene encodes a serine hydrolase that belongs to the esterase D family. The encoded enzyme is active toward numerous substrates including O-acetylated sialic acids, and it may be involved in the recycling of sialic acids. This gene is used as a genetic marker for retinoblastoma and Wilsons disease.
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

Gene Name	ESD esterase D [Homo sapiens]
Official Symbol	ESD

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Synonyms	ESD; esterase D; esterase D/formylglutathione hydrolase; S-formylglutathione hydrolase; S formylglutathione hydrolase; esterase 10; methylumbelliferyl-acetate deacetylase; FGH; FLJ11763;
Gene ID	2098
mRNA Refseq	NM_001984
Protein Refseq	NP_001975
MIM	133280
UniProt ID	P10768
Chromosome Location	13q14.1-q14.2
Pathway	formaldehyde oxidation II (glutathione-dependent), organism-specific biosystem;
Function	S-formylglutathione hydrolase activity; carboxylesterase activity; hydrolase activity, acting on ester bonds; methylumbelliferyl-acetate deacetylase activity;