

## Recombinant Human ESD, GST-tagged

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

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human ESD protein, fused to GST-tag, was expressed in E.coli and purified by GSH-sepharose.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	1-282a.a.
<b>Description</b>	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.
<b>Storage</b>	The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.
<b>Storage Buffer</b>	1M PBS (58mM Na <sub>2</sub> HPO <sub>4</sub> , 17mM NaH <sub>2</sub> PO <sub>4</sub> , 68mM NaCl, pH8. ) added with 100mM GSH and 1% Triton X-100, 15% glycerol.

### GENE INFORMATION

<b>Gene Name</b>	ESD esterase D [ Homo sapiens ]
<b>Official Symbol</b>	ESD

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

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