## abcam

### Product datasheet

# Recombinant Human Iduronate 2 sulfatase/SIDS protein ab158721

1 Image

Description		
Product name	Recombinant Human Iduronate	2 sulfatase/SIDS protein
Expression system	Wheat germ	
Protein length	Full length protein	
Animal free	No	
Nature	Recombinant	
Species	Human	
Sequence		<ul> <li>MPPPRTGRGLLWLGLVLSSVCVALGSETQANSTTDALNV</li> <li>LLIVDDLRPS</li> <li>LGCYGDKLVRSPNIDQLASHSLLFQNAFAQQAVCAPSRV</li> <li>SFLTGRRPDTT</li> <li>RLYDFNSYWRVHAGNFSTIPQYFKENGYVTMSVGKVFHP</li> <li>GISSNHTDDSP</li> <li>YSWSFPPYHPSSEKYENTKTCRGPDGELHANLLCPVDVL</li> <li>DVPEGTLPDKQ</li> <li>STEQAIQLLEKMKTSASPFFLAVGYHKPHIPFRYPKEFQKL</li> <li>YPLENITLA</li> <li>PDPEVPDGLPPVAYNPWMDIRQREDVQALNISVPYGPIPV</li> <li>DFQEDQSSTG FRLKTSSTRKYK</li> </ul>
Amino acids	1 to 312	
Tags	GST tag N-Terminus	

#### Specifications

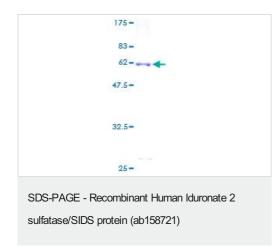
Our Abpromise guarantee covers the use of ab158721 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	Western blot	
	ELISA	
Form	Liquid	
Additional notes	This product was previously labelled as Iduronate 2 sulfatase.	

Preparation and Storage		
Stability and Storage	Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles. pH: 8.00 Constituents: 0.31% Glutathione, 0.79% Tris HCI	
General Info		
Function	Required for the lysosomal degradation of heparan sulfate and dermatan sulfate.	
Tissue specificity	Liver, kidney, lung, and placenta.	
Involvement in disease	Defects in IDS are the cause of mucopolysaccharidosis type 2 (MPS2) [MIM:309900]; also known as Hunter syndrome. MPS2 is an X-linked lysosomal storage disease characterized by intracellular accumulation of heparan sulfate and dermatan sulfate and their excretion in urine. Most children with MPS2 have a severe form with early somatic abnormalities including skeletal deformities, hepatosplenomegaly, and progressive cardiopulmonary deterioration. A prominent feature is neurological damage that presents as developmental delay and hyperactivity but progresses to mental retardation and dementia. They die before 15 years of age, usually as a result of obstructive airway disease or cardiac failure. In contrast, those with a mild form of MPS2 may survive into adulthood, with attenuated somatic complications and often without mental retardation.	
Sequence similarities	Belongs to the sulfatase family.	
Post-translational modifications	The conversion to 3-oxoalanine (also known as C-formylglycine, FGly), of a serine or cysteine residue in prokaryotes and of a cysteine residue in eukaryotes, is critical for catalytic activity.	
Cellular localization	Lysosome.	

#### Images



ab158721 on a 12.5% SDS-PAGE stained with Coomassie Blue.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

- Replacement or refund for products not performing as stated on the datasheet
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- Response to your inquiry within 24 hours
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- We investigate all quality concerns to ensure our products perform to the highest standards

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