Recombinant Human SERPINB1/PI2 Protein (Human Cells, His Tag)

Catalog Number: PKSH032695

Note: *Centrifuge before opening to ensure complete recovery of vial contents.*

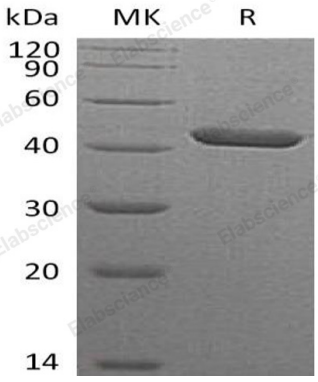
Description

Species	Human
Source	HEK293 Cells-derived Human SERPINB1;PI2 protein Met 1-Pro379, with an C-terminal His
Calculated MW	43.8 kDa
Observed MW	40-56 kDa
Accession	P30740
Bio-activity	Not validated for activity

Properties

Purity	> 95 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per μg of the protein as determined by the LAL method.
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80 ℃. Reconstituted protein solution can be stored at 4-8℃ for 2-7 days. Aliquots of reconstituted samples are stable at < -20℃ for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from a 0.2 μm filtered solution of 20mM PB, 150mM NaCl, pH 7.4. Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
Reconstitution	Please refer to the printed manual for detailed information.

Data



> 95 % as determined by reducing SDS-PAGE.

Background

SERPINB1 is a member of the serpin family and Ov-serpin subfamily. As protease inhibitors; serpins have an array of functions including regulating blood coagulation; fibrinolysis; the complement pathway; angiogenesis; inflammation; tumor suppression; extracellular matrix remodeling; and cell motility. SERPINB1 regulates the activity of the neutrophil proteases elastase; cathepsin G; proteinase-3; chymase; chymotrypsin; and kallikrein-3. Reactive bond 1 of SerpinB1 is specific for reaction with chymotrypsin-like protease such as cathepsin G; chymotrypsin or chymase. Reactive bond 2 of SerpinB1 is specific for reaction with elastase-like protease such as neutrophyl elastase; proteinase-3; pancreatic elastase or PSA. In addition; SERPINB1 also functions as a potent intracellular inhibitor of granzyme H.