SENP2, His-tag Recombinant

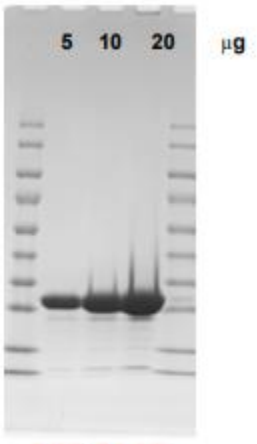
Catalog: 81095
Lot: 231113

Product Information

Description:	Active recombinant SENP2 (SUMO Protease 2). This construct contains an N-terminal His-tag. This protein was affinity purified.
Background:	SUMO Protease 2, a highly active and robust recombinant protease, cleaves hSUMO3 from recombinant fusion proteins. Unlike thrombin, EK, or TEV protease, which recognize short, linear sequences, SUMO Protease 2 recognizes the tertiary structure of huSUMO3. As a result, SUMO Protease 2 will not cleave within the fused protein of interest.
Species:	Human
Tag:	His
Concentration:	10 U/µl
Expression System:	*E. coli*
Purity:	≥90% by SDS-PAGE and RP-HPLC
Format:	Aqueous buffer solution.
Formulated In:	50 mM HEPES, pH 7.5, 150 mM NaCl, 10% glycerol
MW:	28 kDa
Stability:	At least 6 months at -80°C.
Storage:	-80°C
Instructions for Use:	Thaw on ice and gently mix prior to use. DO NOT VORTEX. Perform a quick spin before opening. Aliquot into small volumes and flash freeze for long term storage. Avoid multiple freeze/thaw cycles.
Specific Activity	> 1 x 10^5 U/mg, 1 U will cleave >90 µg of hSUMO3-GFP in 1 hr at 37°C
Assay Conditions:	SUMO3-containing protein should be purified and dialyzed with PBS, pH 7.4 or 20 mM Tris Buffer and 150 mM NaCl pH 8. Incubation with Senp2 is then performed by adding 1 unit of Senp2 per each 10-100 µg of SUMO-3-containing protein and adding DTT to reach a 2 mM final concentration. Reactions can be incubated at 30°C for 1 hour with gentle agitation (no vortexing) or overnight at 4°C.
Applications:	Useful for removal of hSUMO3 from recombinant proteins over a range of temperature (30°C optimal) and ionic strength, and from pH 5.5 to 9.5.

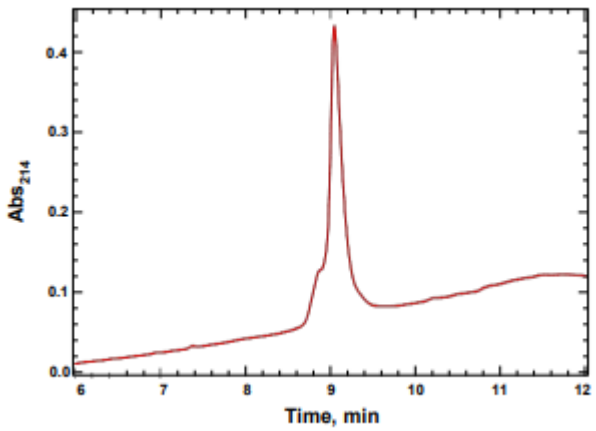
Quality Control Data

SDS-PAGE Coomassie Staining



SDS-PAGE

RP-HPLC



RP-HPLC