ACE2, His-Tag

Catalog: 11003

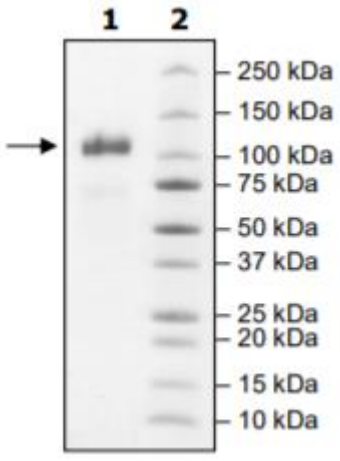
Lot: 131001

Product Information

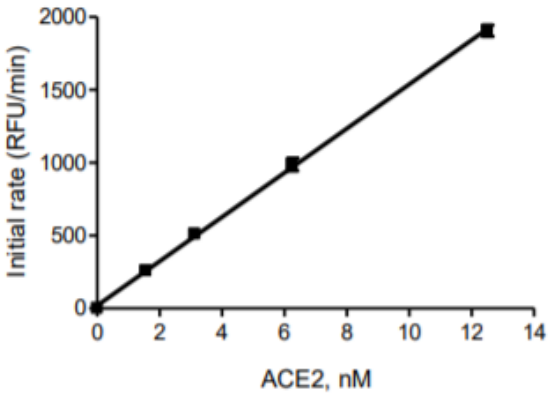
Construct:	ACE2 (18-740-His)
Concentration:	0.14 mg/ml
Species:	Human
Formulated In:	40 mM Tris-HCl, pH 8.0, 110 mM NaCl, 2.2 mM KCl, 200 mM Imidazole and 20% glycerol.
Expression System:	HEK293
Format:	Aqueous buffer solution
Stability:	At least 6 months at -80°C. Avoid freeze/thaw cycles.
Storage:	-80°C
Genbank Accession:	NM_021804
MW:	85 kDa + glycans
Glycosylation:	This protein runs at a higher MW by SDS-PAGE due to glycosylation.
Purity:	≥90%
Assay Conditions:	Assay was done according to ACE2 Inhibitor Screening Assay Kit (BPS Bioscience #79923) with ACE2 titrated from 20 ng/rxn to 0.31 ng/rxn.
Applications:	As an exopeptidase, ACE2 is useful for the study of enzyme kinetics and to screen for inhibitors. As a cell receptor for coronaviruses infection, including 2019-nCoV, ACE2 is useful for the study of protein-protein interactions. Useful for the study of enzyme kinetics, screening inhibitors, and selectivity profiling.

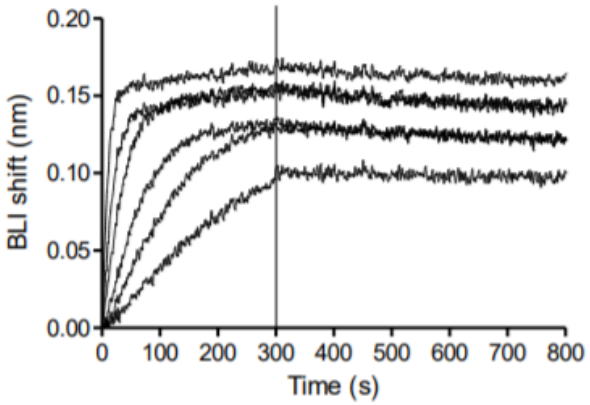
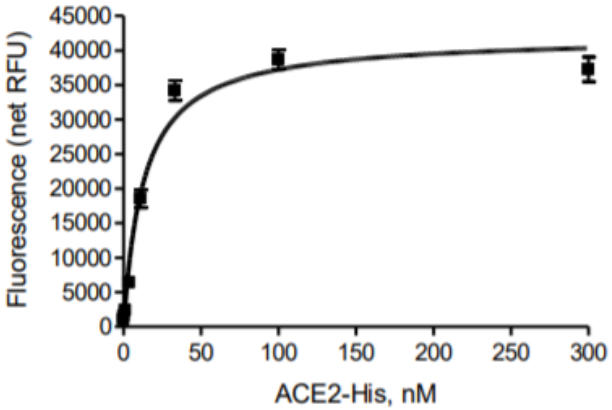
Quality Control Data

4-20% SDS-Page Coomassie Staining



ACE2 Activity



2019-nCoV Spike Protein/Human ACE2, His-tag BLI	2019-nCoV Spike Protein/Human ACE2, His-tag DELFIA
	
Loaded Human ACE2 His-tag (BPS Bioscience #11003) on Anti-His biosensor can bind 2019-nCoV Spike Protein (RBD, mFc Tag) (Sino, 40592-V05H) with an affinity constant of 2 nM as determined in BLI assay (Life Probe Gator).	Immobilized 2019-nCoV Spike Protein (RBD, mFc Tag) (Sino, 40592-V05H) at 4 µg/ml (200 µl/well) can bind human ACE2, His-tag (BPS Bioscience #11003) with a linear range of 1-50 nM. Bound human ACE2, His-tag was quantified with MAb Anti 6HIS-Tb cryptate (Cisbio, 61HISTLB), measuring fluorescence intensity at 340 nm excitation/550 nm emission.