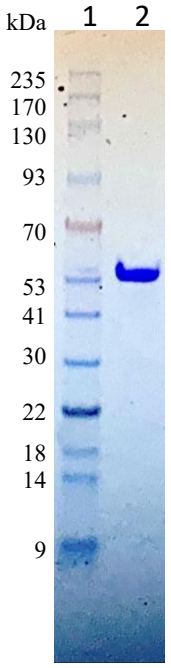
Aurora Biolabs
High Purity Protein for Research

Recombinant Listeriolysin O Protein (LLO)

Catalog Number:232556

Product Name	Recombinant Listeriolysin O Protein (LLO)
Synonym(s)	Thiol-activated cytolysin
Quantity	10 µg, 50 µg, 100 µg
Species	Listeria monocytogenes serovar 1/2a
Molecular weight	57.0 kDa
Purity	>95% by SDS-PAGE
Tag	C-terminal 6×His tag
N-terminal sequence analysis	iMet-Lys25-Glu529
Expression Source	*E. coli*
Uniprot Accession #	P13128
Application	Recombinant protein characterization, activity assays, ELISA, Western blot, crystallization studies.
Formulation	1x PBS, 200 mM imidazole, 10% glycerol, 2 mM BME, pH 6.5
Storage and Stability	Stable for 18 months at -80°C.

SDS-PAGE gel



1 – MW Marker
2 – LLO

Description	Listeriolysin O (LLO) is a cholesterol-dependent pore-forming cytolysin secreted by the intracellular pathogen *Listeria monocytogenes* and a key mediator of bacterial virulence. LLO binds cholesterol-containing membranes and, under acidic conditions, assembles into pore-forming oligomers that disrupt the phagosomal membrane, enabling bacterial escape into the host-cell cytosol. As a member of the cholesterol-dependent cytolysin family, LLO serves as an important model for investigating membrane recognition, pore formation, pH-dependent toxin activity, and host–pathogen interactions. This recombinant protein is suitable for structural and functional studies, membrane-binding and pore-formation assays, antibody discovery and characterization, epitope mapping, and other toxin mechanism research applications.
Reference	Portnoy et al. (1988) *J. Exp. Med.* **167**:1459–1471. Hamon et al. (2012) *Trends Microbiol.* **20**:360–368. Köster et al. (2014) *Nat. Commun.* **5**:3690.

Related products:

TEV Protease-His	190001	1,000 Units, 10,000 Units
PreScission Protease (HRV 3C)	190002	1,000 units, 10,000 units
Recombinant SUMO Protease (Ulp1)	190003	1,000 units, 10,000 units
TEV Protease-GST	190004	5 ug, 200 ug, 1 mg
TEV Protease-AB	190005	5 ug, 200 ug, 1 mg
Recombinant YopH	200100	10 ug, 20 ug, 100 ug, 1 mg

Recombinant Biotin Protein Ligase (BirA)	90101	100 ug
Recombinant SortaseA-5M	90201	50 ug, 200ug
Recombinant Mouse Leukemia Inhibitory Factor	11-0001	10 ug, 100 ug
Recombinant Human LIF	12-0002	10 ug, 100 ug, 1 mg
Recombinant Human FGF-basic, Carrier-free	12-0005CFR	50 ug, 100 ug, 500 ug, 1 mg
DNA Polymerase Theta-N-Helicase Domain	7657643	20 ug, 100 ug
DNA Polymerase Theta-C terminal Domain	7657283	20 ug, 100 ug, 1 mg
DNA Polymerase Theta Full Length protein	7657385	10 ug, 50 ug
Kras Wild Type (WT), GST-tag	5727-4121G	50 µg, 100 µg
Kras WT, GST-tag, GDP Loaded	5727-WTG-G	50 µg, 100 µg
Kras WT, GST-tag, GppNHp loaded	5727-WTG-GP	50 µg, 100 µg
Kras G12C, GST-tag	5727-4122G	50 µg, 100 µg
Kras G12C, GST-tag, GDP Loaded	5727-4122G -G	50 µg, 100 µg
Kras G12C, GST-tag, GppNHp loaded	5727-4122G -GP	50 µg, 100 µg
Kras G12D, GST-tag	5727-4123G	50 µg, 100 µg
Kras G12D, GST-tag, GDP Loaded	5727-4123G -G	50 µg, 100 µg
Kras G12D, GST-tag, GppNHp loaded	5727-4123G -GP	50 µg, 100 µg
Kras G12V, GST-tag,	5727-4128G	50 µg, 100 µg
Kras G12V, GST-tag, GDP Loaded	5727-4128G -G	50 µg, 100 µg
Kras G12V, GST-tag, GppNHp loaded	5727-4128G -GP	50 µg, 100 µg
Human SOS1, No Tag	7671	50 µg, 100 µg
Human RBD-RAF1, N-His tag, C-FLAG tag	7237231	50 µg, 100 µg
Recombinant SARS-CoV-2 Mpro, 3CL protease	728201	50 ug, 500 ug
Recombinant SARS-CoV-2 Papain-like Protease, CF	728251	50 ug, 100 ug
Recombinant SARS-CoV-2 Helicase (NSP13)	728231	10 ug, 50 ug, 100 ug
Recombinant SARS-CoV-2 NSP7	728264	100 ug, 1mg
Recombinant SARS-CoV-2 NSP8	728265	100 ug, 1mg
Recombinant Human BCL2	225201	100 ug
GST-CDK2: His-CyclinE1	C352E1	10 ug, 100 ug
GST-CDK2: His-CyclinA2	C352A2	10 ug, 100 ug
Recombinant Human Malic enzyme 1 (ME1)	180001	10 ug, 25 ug, 100 ug, 1 mg
Recombinant Human Malic enzyme 2 (ME2)	180002	10 ug, 25 ug, 100 ug, 1 mg
Recombinant Human Malic enzyme 3 (ME3)	180003	10 ug, 25 ug, 100 ug, 1 mg
Recombinant Human PD-1	23731	100 ug
Recombinant Human PD-L1	237351	100 ug
Recombinant Human OX40	236940	100 ug
Recombinant Human OX40L	2369405	100 ug
Recombinant Human TfR1/CD71 Protein- 6x His	48371	100 µg, 500 µg, 1.0 mg
Recombinant Human TfR1/CD71 Protein-10X His	48372	100 µg, 500 µg, 1.0 mg
Recombinant Cynomolgus TfR1/CD71 Protein	28371	100 µg, 500 µg, 1.0 mg

Products are for research use only and are not intended for human use. We do not sell to patients.