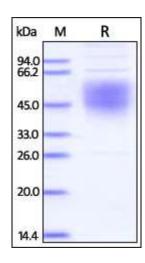
## Human CellExp<sup>™</sup> Recombinant Ebolavirus BDBV Envelope Glycoprotein 1 (GP1)

CATALOG NO:	P1061-10 P1061-50	10 μg 50 μg
ALTERNATE NAMES:	GP1, GP, Envelope glycoprotein, GP2 (subtype Bundibugyo, strain Uganda 2007)	
SOURCE:	HEK 293 cells (lle 33 - Gln 304)	
PURITY:	> 95% by SDS – PAGE	
MOL. WEIGHT:	Ebolavirus BDBV (subtype Bundibugyo,strain Uganda 2007) GP1 is fused with a polyhistidine tag at the C-terminus, and has a calculated MW of 31.8 kDa. The predicted N-terminus is IIe 33. DTT-reduced Protein migrates as 40-60 kDa in SDS-PAGE.	
ENDOTOXIN LEVEL:	< 1.0 EU per 1 $\mu$ g of protein (determined by LAL method)	
FORM:	Lyophilized	
FORMULATION:		0.22 $\mu$ m filtered solution in PBS, pH 7.4. of or Trehalose is added as a protectant before
STORAGE CONDITIONS:		ter reconstitution, aliquot and store at -20°C and ns. Avoid repeated freezing and thawing cycles.
RECONSTITUTION:	7.4 to a concentra	I prior to opening. Reconstitute in sterile PBS, pH tion of 50 $\mu$ g/ml. Do not vortex. This solution can C for up to 1 month. For extended storage, it is store at -20°C.
DESCRIPTION:	polymerase cofac (VP30), VP24, and kDa envelope-atta glycoprotein (sGP as trimers on viral and attachment. formed by two sul the proteolytical p during virus assa receptor(s) on ta CLEC4W/DC-SIGI host cell. GP2 ac endothelial cell function. sGP see	seven structural proteins: nucleoprotein (NP), tor (VP35), (VP40), GP, transcription activator d RNA polymerase (L). GP protein contains 160- ached glycoprotein (GP) and a 110 kDa secreted ). GP is a class I fusion protein which assembles surface and plays an important role in virus entry Mature GP is a disulfide-linked heterodimer bunits, GP1 and GP2, which are generated from rocess of GP precursor (pre-GP) by cellular furin embly. GP1 is responsible for binding to the rget cells. Interacts with CD209/DC-SIGN and NR which act as cofactors for virus entry into the ts as a class I viral fusion protein. GP mediates activation and decreases endothelial barrier ms to possess an anti-inflammatory activity as it writer decreasing affects of TNE oldeb.

can reverse the barrier-decreasing effects of TNF alpha.



## **Recombinant Ebolavirus BDBV:**

The purity of Ebolavirus BDBV (subtype Bundibugyo,strain Uganda 2007) GP1 was determined by DTTreduced (+) SDS-PAGE and staining overnight with Coomassie Blue.

## **RELATED PRODUCT:**

- Human CellExp™ Recombinant EBOV Envelope Glycoprotein 1 (Cat. No. 1060-10, -50)
- Active HIV-2 Protease Recombinant (GST-tagged) (Cat. No. 7851-20, -100)
- Active HIV1 Protease Recombinant (GST-tagged) (Cat. No. 7849-20, -100)
- Human CellExp™ HIV-1 (CN54) GP120 (Cat. No. P1003-20, -100)
- Human CellExp™ HAVCR1 / KIM1 / TIM1, Human recombinant (Cat. No. 7232-10)
- Human CellExp™ HVEM/TNFRSF14, Human recombinant (Cat. No. 7466-20, -100)
- Human CellExp™ Influenza A virus / Neuraminidase (NA) (Cat. No. 7508-20)
- Human CellExp™ KIM3/HAVCR2, Human recombinant (Cat. No. 7495-10, -50)
- Human CellExp<sup>™</sup> TPO, Human Recombinant (Cat. No. 6483-10, -50)

FOR RESEARCH USE ONLY! Not to be used on humans.

