

PS20 Protein, Human, Recombinant (His)

General Information

Synonyms:	Wfdc1;Ps20
Protein Construction:	Lys32-Gln220
Species:	Human
Expression Host:	E. coli
Accession:	Q9HC57
Molecular Weight:	22 kDa (predicted). The protein migrates to 25-30 kDa based on Tris-Bis PAGE result.

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 95% as determined by Tris-Bis PAGE
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Supplied as 0.22 μm filtered solution in 20 mM PB, 500 mM NaCl, 200 mM L-arginine (pH 7.4).

Preparation and Storage

Stability & Storage:

It is recommended to store the product under sterile conditions at -70°C or lower. Samples are stable for up to 12 months at -80°C. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

Proteins are shipped with blue ice.

Protein Background

The whey acidic protein family member, WFDC1/ps20 is a permissivity factor in HIV infection. Herein we describe a contrasting role for ps20 in limiting MHV-1 infection. Intranasal MHV-1 infection produces a respiratory infection in mice. Using ps20 knockout mice we provide evidence that intranasal MHV-1 infection results in increased lung viral titers in ps20(-/-) compared to ps20(/) mice. Roles for ps20 in regulating expression of neutrophil-specific chemotactic factors, thereby potentially modulating neutrophil migration, and in modulating neutrophil susceptibility to MHV-1 infection.

Reference

Rogers E, et al. WFDC1/ps20: a host factor that influences the neutrophil response to murine hepatitis virus (MHV) 1 infection. *Antiviral Res.* 2012 Nov;96(2):158-68. doi: 10.1016/j.antiviral.2012.08.012. Epub 2012 Sep 6. PMID: 22960155; PMCID: PMC7114264.

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