

DESCRIPTION

Source	Human embryonic kidney cell, HEK293-derived <i>r. sanguineus</i> Evasin-1 protein		
	Human IgG ₁ (Met-Asp-Pro100 - Lys330)	IEGR	R. sanguineus Evasin-1 (Glu21-Asn114) Accession # P0C8E7.1
	N-terminus		C-terminus
N-terminal Sequence Analysis	Met-Asp-Pro100		
Structure / Form	Disulfide-linked homodimer		
Predicted Molecular Mass	37 kDa		

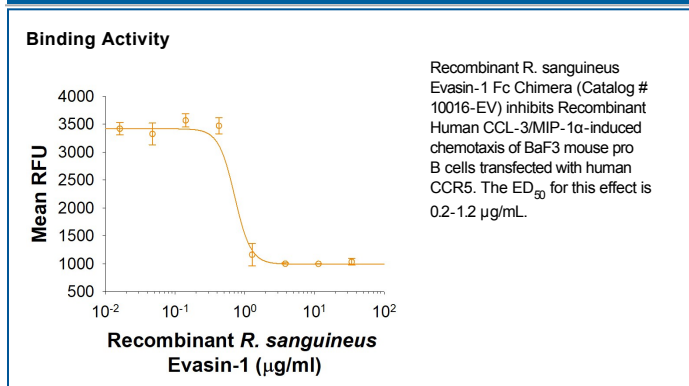
SPECIFICATIONS

SDS-PAGE	40-61 kDa, reducing conditions
Activity	Measured by its ability to inhibit CCL3/MIP-1 α -induced chemotaxis of BaF3 mouse pro-B cells transfected with human CCR5. The ED ₅₀ for this effect is 0.2-1.2 μ g/mL
Endotoxin Level	<0.10 EU per 1 μ g of the protein by the LAL method.
Purity	>90%, by SDS-PAGE visualized with Silver Staining and quantitative densitometry by Coomassie® Blue Staining.
Formulation	Lyophilized from a 0.2 μ m filtered solution in PBS. See Certificate of Analysis for details.

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 500 μ g/mL in PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	<ul style="list-style-type: none"> ● 12 months from date of receipt, \leq -20 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 3 months, \leq -20 °C under sterile conditions after reconstitution.

DATA



BACKGROUND

Evasin-1 is a highly selective chemokine-binding protein isolated from tick saliva. The cDNA of tick Evasin-1 encodes a 114 amino acid (aa) precursor, which include a 20 aa signal peptide and the 94 aa mature protein (1). Ticks are blood sucking parasites that secrete a wide variety of immunomodulatory proteins to evade the host immune response. The saliva isolated from Ticks has shown chemokine neutralization activity. A group of proteins contributing to this activity have been identified as chemokine-binding proteins (CHPBs) and named as Evasins (1-3). Evasin-1 shows high affinity binding to a very limited set of three highly homologous CC chemokines: CCL3, CCL4 and CCL18 (1). Since it is a small molecule, Evasin-1 may be therapeutically useful as novel anti-inflammatory agent.

References:

1. Frauenschuh, A. *et al.* (2007) J. Biol. Chem. **282**:27250.
2. Deruaz, M. *et al.* (2008) J. Exp. Med. **205**:2019.
3. Deruaz, M. *et al.* (2013) FEBS J. **280**:4876.