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Data Sheet

CD38, His-Tag (Human), HiP™

Human, Recombinant, C-terminal His-Tag
Catalog#: 71277
Lot#: 160816 **Conc.:** 0.21 mg/ml

Formulated in: 8 mM phosphate, pH 7.4, 110 mM NaCl, 2.2 mM KCl, and 20% glycerol.

Stability: At least 6 months at –80°C. *Avoid freeze/thaw cycles. Protein may be diluted to ≥ 100 µg/ml in PBS + glycerol and stored at -80°C.*

References:

1. Damle, R. *et al., Blood.* 1998; **94**: 1840-1847.
2. Howard, M. *et al., Science.* 1993; **262(5136)**: 1056-1059.

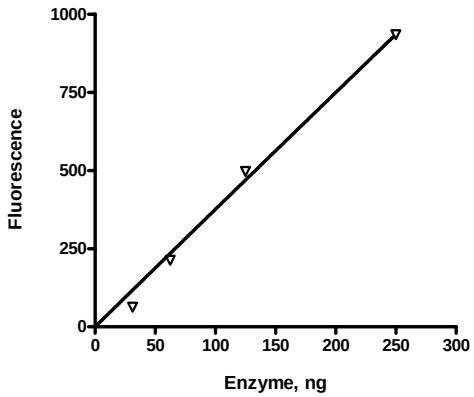
Description:
Human CD38, also known as cluster of differentiation 38 and cyclic ADP ribose hydrolase with C-terminal His-tag, GenBank Accession No. NM_001775, a.a. 43-300 expressed in a HEK293 cell expression system. MW = 31 kDa. This protein runs at a higher MW by SDS-PAGE due to glycosylation.

Assay Conditions: Add CD38 enzyme to 50 µl reaction mix containing NGD+ (Nicotinamide Guanine Dinucleotide). Incubate 4 min at room temperature. Read fluorescence (λexc=300 nm, λem=410 nm).

Application:
Useful for studying protein binding and for screening small molecules and antibodies.

Quality Assurance

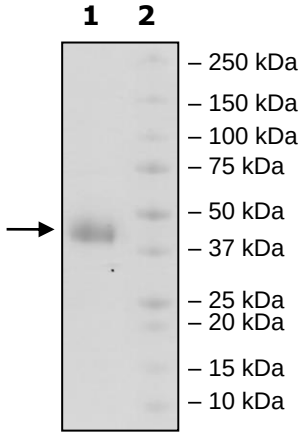
CD38 Specific Activity



4-20% SDS-PAGE
Coomassie staining

Lane 1:
3µg CD38
Lane 2:
Protein Marker

MW: 31 kDa +glycans
Purity: ≥90%



OUR PRODUCTS ARE FOR RESEARCH USE ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.

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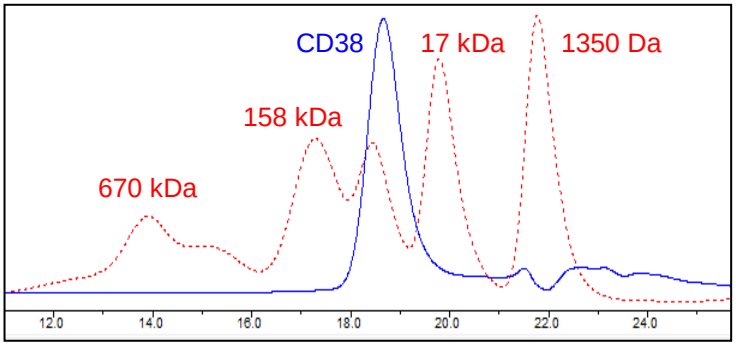
Gel Filtration Curve



<10% Aggregation

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