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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Data Sheet

MAPK14 (p38 α), His-tag, active

Human, Recombinant, N-terminal His-tag
Catalog #: 40243
Lot #: 140124-P **Conc.:** 0.65 mg/ml

Formulated in: 40 mM Tris-HCl, pH 8.0, 110 mM NaCl, 2.2 mM KCl, 0.04% Tween-20, 3 mM DTT, and 20% glycerol

Stability: At least 6 months at -80°C . Avoid freeze-thaw cycles.

References:

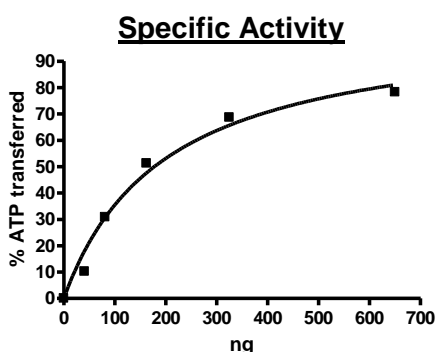
1. Hatherley, D., *et al.*, *Mol. Cell*, 2008, **31**:266-77
2. Baba, N., *et al.*, *J. Exp. Med.*, 2013, **210**(6):1251-63

Description: Mitogen-activated protein kinase 14 (MAPK14) GenBank Accession No. NM_001315, a.a. 2-360 (end), with N-terminal His-tag, MW 42.3 kDa, expressed in a baculovirus-infected Sf9 cell expression system. This protein is activated by *in vitro* phosphorylation and SEC.

Specific Activity: ≥ 100 pmol/min/ μg
 Assay conditions: Assay was performed in kinase buffer containing 0.2 mM DTT using P38 peptide substrate (0.1 mg/ml) and 20 μM ATP. Reaction was done at 30°C for 40 min. Amount of ATP transferred was calculated using Kinase-Glo reagent (Promega).

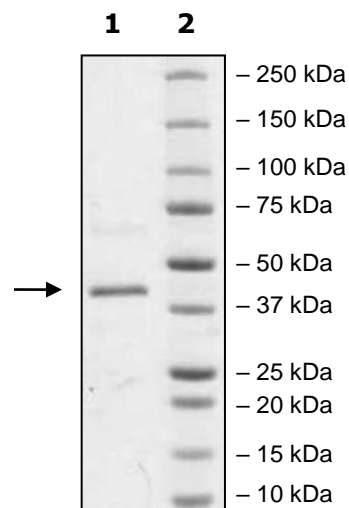
Application: Useful for studying enzyme kinetics, screening inhibitors, and selectivity profiling.

Quality Assurance



**4-20% SDS-PAGE
 Coomassie staining**

Lane 1:
 1 μg MAPK14
Lane 2:
 Protein Marker
MW: 42.3 kDa
Purity: $\geq 80\%$



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Protein Sequence

MHHHHHSQERPTFYRQELNKTIVEVPERYQNLSPVGS GAYGSVCAAFDTKTGLRVAVKKLSRPFQ
SIIHAKRTYRELRLLLKMKHENVIGLLDVFTPARSLEEFNDVYLVTHLMGADLNNIVKCQKLTDDH
VQFLIYQILRGLKYIHSADIIHRDLKPSNLAVNEDCELKILDFGLARHTDDEMTGYVATRWRAP
EIMLNWMHYNQTVDIWSVGCIMAELLTGRTLFPGTDHINQLQQIMRLTGTPPAYLINRMP
SHEARNYIQSLTQMPKMN FANVFIGANPLAVDLLEKMLVLDSDKRITAAQALAHAYFAQYHDP
DDEPVADPYDQSFESRDL LIDEWKSLTYDEVISFVPPPLDQEEMES

Red – His-tag

Black – MAPK14 (a.a. 2-360(end))

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