# **Certificate of Analysis**



# ProQinase<sup>TM</sup> TAOK3 (TAO kinase 3)

#### **Recombinant Human Active Protein Kinase**

Synonyms: DPK, JIK, KDS, MAP3K18, hKFC-A

Product No.: 0908-0000-1

**Lot**: 005

Description: Human TAOK3, full length, amino

acids M<sub>1</sub>-R<sub>898</sub> (as in GenBank entry

NM\_016281.2)\*, untagged, expressed in Sf9

insect cells

\*Sequence may contain documented polymorphisms Detailed aa-sequence on request

**Product identity:** TAOK3 Lot 005 was confirmed as TAOK3 by mass spectroscopy LC-ESI-MS/MS

Theoretical MW<sub>Protein</sub>: 106,015 Da

Expression: Baculovirus infected Sf9 cells

**Purification:** GST-Affinity Chromatography

**Storage buffer:** 50 mM HEPES pH 7.5, 100 mM NaCl, 5 mM DTT, 20% glycerol

**Storage temperature:** -80°C Avoid repeated freeze-thaw cycles!

**Protein concentration:** 0.124 μg/μl (Bradford method using BSA [Sigma, cat# A-7638, Lot 79H7641] as standard protein)

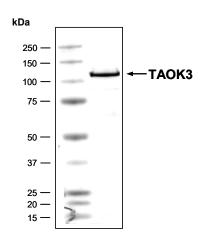
## Determination of K<sub>m</sub> value & Specific activity:

Assay conditions:
 60 mM HEPES-NaOH, pH 7.5
 3 mM MgCl<sub>2</sub>
 3 mM MnCl<sub>2</sub>
 3 μM Na-orthovanadate
 1.2 mM DTT
 50 μg / ml PEG<sub>20.000</sub>
 ATP (variable)
 Substrate: PKC-derived peptide (LRRLSLGLRRLSLGLRRLSLGREARKGSLRQKNV), 2.5 μg / ml TAOK3: 2.0 μg / ml

 Filter binding assay MSPH membrane (Millipore)

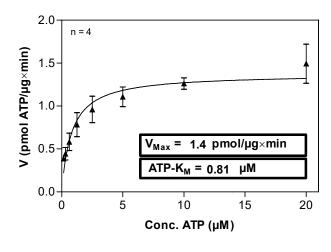
Specific activity: 1 pmol/µg×min

### Coomassie stain:



2.0 µg TAOK3

#### Determination of $K_m$ value for ATP:



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This product was manufactured at Reaction Biology in Freiburg, Germany, and is for in vitro research use only, not for use in humans or animals.

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