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- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

[mail@szabo-scandic.com](mailto:mail@szabo-scandic.com)

[www.szabo-scandic.com](http://www.szabo-scandic.com)

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

## Data Sheet

### Jak3, His-tag

Human, recombinant, N-terminal 10x His-Tag  
**Catalog #:** 40452  
**Lot #:** 150921-A2                      **Conc.:** 0.79 mg/ml

**Formulated in:** 40 mM Tris pH 8.0, 110 mM NaCl, 2.2 mM KCl, 0.04% Tween-20, 200 mM imidazole, 3 mM DTT and 20% glycerol

**Stability:** At least 6 months at  $-80^{\circ}\text{C}$ . Avoid freeze/thaw cycles.

**References:**

1. Kim S. *et al.*, *Cell. Signal.* **21 (6)**, 892-898 (2009).
2. Mullighan C.G. *et al.*, *Proc. Natl. Acad. Sci. U.S.A.* **106 (23)**, 9414-9418 (2009).

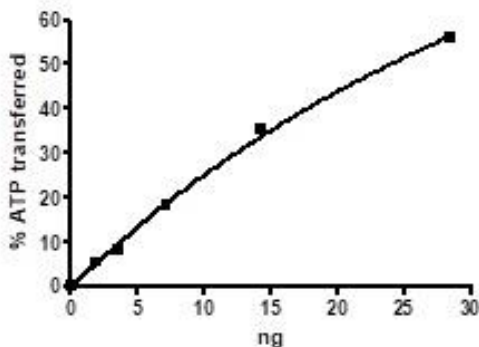
**Description:** Human Jak3 (Janus kinase 3), also known as LJAK, GenBank Accession No. NM\_000215, a.a. 811-1124(end) with N-terminal 10x His-Tag, expressed in Baculovirus-infected Sf9 cell expression system. MW = 37 kDa.

**Specific Activity:** 500 pmol/min/ $\mu\text{g}$ .  
 Assay conditions: 40 mM Tris-HCL pH 7.4, 20 mM MgCl<sub>2</sub>, 0.1 mg/mL BSA and 0.2 mM DTT using 0.2 mg/ml Poly-(Glu4:Tyr) substrate and 20 mM ATP. Reaction was done at  $30^{\circ}\text{C}$  for 45 min. Amount of ATP transferred was calculated using Kinase-Glo reagent from Promega.

**Applications:** Useful for the study of enzyme kinetics, screening inhibitors, and selectivity profiling.

### Quality Assurance

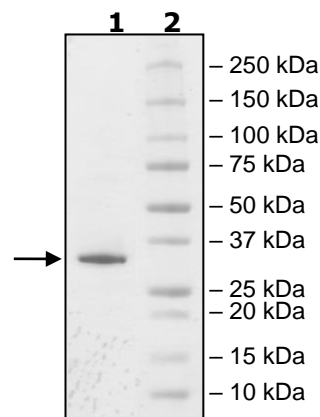
**Specific Activity**



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

**Lane 1:**  
2 $\mu\text{g}$  JAK3  
**Lane 2:**  
Protein Marker

**MW:** 37 kDa  
**Purity:**  $\geq 90\%$



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