

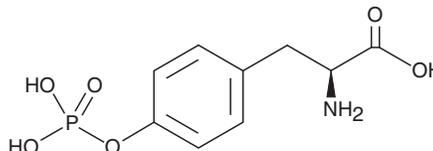
# PRODUCT INFORMATION



## O-Phospho-L-Tyrosine

Item No. 23064

**CAS Registry No.:** 21820-51-9  
**Formal Name:** O-phosphono-L-Tyrosine  
**Synonyms:** Phosphotyrosine, P-Tyr  
**MF:** C<sub>9</sub>H<sub>12</sub>NO<sub>6</sub>P  
**FW:** 261.2  
**Purity:** ≥95%  
**UV/Vis.:** λ<sub>max</sub>: 220 nm  
**Supplied as:** A crystalline solid  
**Storage:** -20°C  
**Stability:** ≥4 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

### Laboratory Procedures

O-Phospho-L-Tyrosine is supplied as a crystalline solid. Aqueous solutions of o-phospho-L-tyrosine can be prepared by directly dissolving the crystalline solid in aqueous buffers. The solubility of o-phospho-L-tyrosine in PBS, pH 7.2, is approximately 10 mg/ml. We do not recommend storing the aqueous solution for more than one day.

### Description

O-Phospho-L-tyrosine is a phosphorylated form of L-tyrosine. Tyrosine phosphorylation was originally discovered in proteins containing tyrosines found to be modified by tumor viruses.<sup>1</sup> O-phospho-L-tyrosine is used in studies of tyrosine phosphorylation and has been used in affinity chromatography for the purification of IgG.<sup>2-4</sup>

### References

1. Hunter, T. Phosphotyrosine - a new protein modification *Trends Biochem. Sci.* **7(7)**, 246-249 (1982).
2. Gmeiner, B., and Seelos, C. Phosphorylation of tyrosine prevents dityrosine formation *in vitro*. *FEBS. Lett.* **255(2)**, 395-397 (1989).
3. Afonso, A., Pereira, P., Queiroz, J.A., *et al.* Purification of pre-miR-29 by a new O-phospho-L-tyrosine affinity chromatographic strategy optimized using design of experiments. *J. Chromatogr. A.* **1343**, 119-27 (2014).
4. Pavan, G.L., Bresolin, I.T.L., Grespan, A., *et al.* Phosphorylated-tyrosine based pseudobioaffinity adsorbent for the purification of immunoglobulin G. *J. Chromatogr. B Analyt. Technol. Biomed. Life Sci.* **1052**, 10-18 (2017).

**WARNING**  
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

**SAFETY DATA**  
This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the [complete](#) Safety Data Sheet, which has been sent via email to your institution.

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