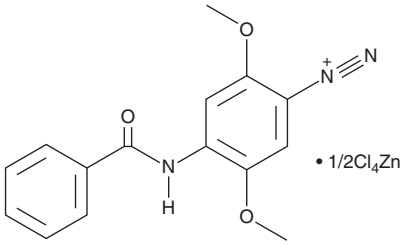
PRODUCT INFORMATION

Fast Blue RR Salt

Item No. 46276

CAS Registry No.: 14726-29-5
Formal Name: 4-(benzoylamino)-2,5-dimethoxy-benzenediazonium, (T-4)-tetrachlorozincate(2-) (2:1)
Synonym: FBRR
MF: $C_{15}H_{14}N_3O_3 \bullet 1/2Cl_4Zn$
FW: 387.9
UV/Vis.: λ_{max}: 330, 392 nm
Supplied as: A solid
Storage: -20°C
Stability: ≥4 years
Special Conditions: Light sensitive



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

Laboratory Procedures

Fast blue RR salt is supplied as a solid. A stock solution may be made by dissolving the fast blue RR salt in the solvent of choice, which should be purged with an inert gas. Fast blue RR salt is soluble (≥10 mg/ml) in DMSO.

Description

Fast blue RR salt is a colorimetric probe for the detection of phenolic compounds.[1-3] Upon a diazo coupling reaction with phenolic compounds, it forms azo-containing complexes that can be quantified by colorimetric detection at wavelengths that depend on the phenolic compound. Fast blue RR salt has been used to detect esterase activity and the presence of phenol-containing compounds *in vitro*.

References

1. Sampietro, D.A., Vattuone, M.A., and Catalán, C.A.N. A new colorimetric method for determination of alkylresorcinols in ground and whole-cereal grains using the diazonium salt Fast Blue RR. *Food Chem.* **115(3)**, 1170-1174 (2009).
2. Johnson, K.J. and Ashford, A.E. A simultaneous-coupling azo dye method for the quantitative assay of esterase using α-naphthyl acetate as substrate. *Histochem. J.* **12(2)**, 221-234 (1980).
3. Nakamura, K., Nishiguchi, H., Arai, R., *et al*. Isolating and determining the structures of colored products from the reactions of cannabinoids with Fast Blue RR. *Molecules* **30(17)**, 3462 (2025).

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.

WARRANTY AND LIMITATION OF REMEDY
Buyer agrees to purchase the material subject to Cayman's Terms and Conditions. Complete Terms and Conditions including Warranty and Limitation of Liability information can be found on our website.

Copyright Cayman Chemical Company, 09/14/2026

CAYMAN CHEMICAL
1180 EAST ELLSWORTH RD
ANN ARBOR, MI 48108 · USA
PHONE: [800] 364-9897
[734] 971-3335
FAX: [734] 971-3640
CUSTSERV@CAYMANCHEM.COM
WWW.**CAYMANCHEM**.COM