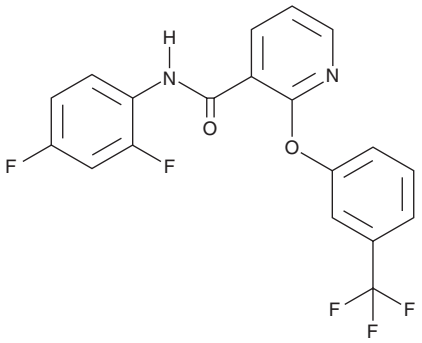
PRODUCT INFORMATION

Diflufenican

Item No. 44151



CAS Registry No.:	83164-33-4
Formal Name:	N-(2,4-difluorophenyl)-2-[3-(trifluoromethyl) phenoxy]-3-pyridinecarboxamide
Synonym:	DFF
MF:	$C_{19}H_{11}F_5N_2O_2$
FW:	394.3
Purity:	≥98%
Supplied as:	A 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

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

Description

Diflufenican is an herbicide.[1,2] Diflufenican reduces chlorophyll content in the shoots of *G. aparine*, *S. viridis*, *S. media*, and *V. arvensis* and inhibits the growth of *P. lapathifolium* and *A. fatua* by 90% at 250 g/hectare. Formulations containing diflufenican have been used for broad leaf and grass weed control in agricultural areas.

References

1. Haynes, C. and Kirkwood, R.C. Studies on the mode of action of diflufenican in selected crop and weed species: Basis of selectivity of pre- and early post-emergence applications. *Pestic. Sci.* **35(2)**, 161-165 (1992).
2. Cramp, M.C., Gilmour, J., Hatton, L.R., *et al*. Design and synthesis of N-(2,4-difluorophenyl)-2-(3-trifluoromethylphenoxy)-3-pyridinecarboxamide (diflufenican), a novel pre- and early post-emergence herbicide for use in winter cereals. *Pestic. Sci*. **18**, 15-28 (1987).

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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